

**I. INTRODUCTION**

Claims 1, 41-55 and 83 are currently pending in the above-identified application.

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**II. RESTRICTION REQUIREMENT**

In the Restriction Requirement, the Examiner asserts that the above-identified application contains claims directed to more than one species of the generic invention. For such reason, the Examiner believes that the restriction of claims is proper, and now requires Applicants to elect one of the following alleged species:

Species A: corresponding to claim 47, allegedly drawn to special technical features directed to optical mapping and polymorphic mapping; or

Species B: corresponding to claims 51 and 52, allegedly drawn to special technical features directed to site-based and interval based polymorphisms.

Further, the Examiner has determined claims 41 and 44 to be generic.

Applicants hereby elect alleged Species A, corresponding to claim 47, without traverse, for prosecution in the above-identified application, and reserve the right to pursue any non-elected subject matter in the above-identified application and/or one or more applications claiming priority from the above-identified application. Thus, claims 1, 41-51, 53-55 and 83 are now under consideration in the above-identified application.

Accordingly, Applicants respectfully assert that the Restriction Requirement is now moot and should be withdrawn for at least the reasons provided herein above.

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Further, Applicants respectfully request that upon the allowance of independent claim 41 from which claims 51 and 52 depend, the Examiner indicates that these dependent claims would also be deemed allowable.

**III. CONCLUSION**

In light of the foregoing, Applicants respectfully submit that the pending claims are in condition for allowance. Prompt reconsideration and allowance of the present application are therefore earnestly solicited. The Examiner is invited to contact the undersigned to expedite the prosecution of this application if any issues remain outstanding.

Respectfully submitted,

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